

1. Explain what the best ramp would be like in a skateboard park, if you wanted to go a long distance without kicking off.

2. Where would a ball have the greatest potential energy? Explain your reasoning.

at the top of a hill or in the middle of a hill

3. What kinds of jobs would require knowledge about energy? Explain your reasoning.

4. When would track design be used? Explain your reasoning.

5. What is an example of stored mechanical energy, and when does it turn into kinetic energy? Explain your reasoning.

CRITERIA

- car must go the furthest distance possible from bottom of ramp propelled by one marble

CONSTRAINTS

- car must be placed at the bottom of the ramp
 - marble must be released and not pushed
 - ramp must be portable

CONSIDERATIONS

- marble must enter the car to push it